

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B23D79/02 B23K7/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B23D B23K B21D B23B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 4 340 163 A (ROMASHOV ALEXANDR A ET AL) 20 July 1982 (1982-07-20) figures 1,2	23,25, 26,28-30 1,7,8, 13,14
A	----- US 4 035 604 A (MELEKA ABDOU HANNA ET AL) 12 July 1977 (1977-07-12) -----	

☐ Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

30 August 2004

Date of mailing of the international search report

06/09/2004

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4340163	A	20-07-1982	NONE	
US 4035604	A	12-07-1977	GB 1454092 A	27-10-1976
			DE 2401969 A1	03-10-1974
			FR 2213831 A1	09-08-1974
			IT 1005804 B	30-09-1976
			JP 49102547 A	27-09-1974